

## Practice Paper: Common Annual Exam

Class: XI  
Session: 2022-23  
Subject: Physics

Maximum Marks: 70 Marks

Time Allowed: 3 hours

### General Instructions:

- (1) All questions are compulsory. There are 35 questions in all.
- (2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- (3) Section A contains 15 MCQ and 3 assertion reasoning MCQs of 1 mark each. Section B contains 7 short answer questions of 2 marks each. Section C has five short answer questions of 3 marks each. Section D contains three long answer questions of 5 marks each. Section E has two case based questions of 4 marks each.
- (4) There is no overall choice. However internal choice is provided. You have to attempt only one of the choices in such questions.

	<b>Section – A</b> <b>All questions are compulsory.</b>	
1	Plants get water through roots because of a) Elasticity b) Viscosity c) Capillarity d) Gravity	1
2	The x and y coordinates of a particle at any time t is given by $x=7t+4t^2$ and $y = 5t$ , where x and y are in metre and t in seconds. The acceleration of particle at $t=5s$ is a) $41m/s^2$ b) $25m/s^2$ c) $17 m/s^2$ d) $8m/s^2$	1
3	A mild steel wire of length 2L and cross sectional area A is stretched, well within the elastic limit, horizontally between two pillars as shown in the figure. A mass m is suspended from the mid point of the wire. Strain in the wire is-	1

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**Raffaela Di Napoli**



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**Minutes** ,1912      **The City Record** ,1903      **The Chemical News and Journal of Physical Science** ,1867  
**Annual Reports of the War Department** United States. War Department,1898      *Bulletin of the U.S. Department of Agriculture* ,1915      **Chemical News and Journal of Physical Science** ,1867      **Joint Documents of the State of Michigan** Michigan,1895      **Inventory of Federal Archives in the States** Historical Records Survey (U.S.),1940  
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